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PAUL J FARRELL DILWORTH & BARRESE 333 EARLE OVINGTON BLVD			EXAMINER	
			LELE, TANMAY S	
UNIONDALE, NY 11553		ART UNIT	PAPER NUMBER	
			2684	16
			DATE MAILED: 09/17/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

	4					
	Application No.	Applicant(s)				
0.65	09/253,976	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tanmay S Lele	2684				
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu - Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b). Status	.136(a). In no event, however, may a split within the statutory minimum of third will apply and will expire SIX (6) MON to, cause the application to become Al	eply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 16	<u>June 2003</u> .					
2a)☐ This action is FINAL . 2b)⊠ 1	This action is non-final.					
Since this application is in condition for allow closed in accordance with the practice under Disposition of Claims						
4) Claim(s) <u>1-4,9,13,17 and 19-26</u> is/are pendi	ng in the application.					
4a) Of the above claim(s) is/are withdr	awn from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1,2,9,13,17,19,20,23 and 24</u> is/are	rejected.					
7) Claim(s) <u>3,4,21,22,25 and 26</u> is/are objected	to.					
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9) The specification is objected to by the Examir						
10)⊠ The drawing(s) filed on <u>16 June 2003</u> is/are:	a)⊠ accepted or b)⊡ objecte	d to by the Examiner.				
Applicant may not request that any objection to		• •				
11) The proposed drawing correction filed on		lisapproved by the Examiner.				
If approved, corrected drawings are required in i	, ,					
12) The oath or declaration is objected to by the E	xamıner.					
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority docume	 Certified copies of the priority documents have been received. 					
2. Certified copies of the priority docume	nts have been received in A	pplication No				
 3. Copies of the certified copies of the principal application from the International E * See the attached detailed Office action for a list 	Bureau (PCT Rule 17.2(a)).	-				
14)☐ Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C.	§ 119(e) (to a provisional application).				
a) The translation of the foreign language p 15) Acknowledgment is made of a claim for dome	rovisional application has b	een received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152) .				

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 16 June 2003 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1 - 4, 9, 13, 17, and 19 - 26 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

3. Claims 3, 4, 21, 22, 25, and 26 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claims 3, 21, and 25, the present invention is of wherein the controller and the method comprises: a reference cycle storage for storing a reference switching cycle value; a counter for counting clock pulses of a base station and outputting a counted value based on the reference switching cycle value; a memory for storing a plurality of switching patterns and outputting one of said plurality of switching patterns based on the counted value; and a control signal generator for generating the switch controlling signal according to the switching pattern selected from the memory. The closest prior art, Smith et al (Smith, US Patent No 6,006,075) in view Zehavi (Zehavi, US Patent No. 6,185,199) in further view of Rappaport (Rappaport,

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"Wireless Communications," Prentice Hall Publications) teach of a memory for storing a plurality of switching patterns and outputting one of said plurality of switching patterns, but alone or in combination with other prior art, do not specifically teach of wherein the controller comprises: a reference cycle storage for storing a reference switching cycle value; a counter for counting clock pulses of a base station and outputting a counted value based on the reference switching cycle value; [a memory for storing a plurality of switching patterns and outputting one of said plurality of switching patterns based] on the counted value; and a control signal generator for generating the switch controlling signal according to the switching pattern selected from the memory.

Claims 4, 22, and 26 are objected to for at least those reasons as in dependent claims 3, 21, and 25.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 2, 19,20,23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (Smith, US Patent No 6,006,075) in view Zehavi (Zehavi, US Patent No. 6,185,199) in further view of Rappaport (Rappaport, "Wireless Communications," Prentice Hall Publications).

Regarding claim 1, Smith teaches of a transmitting apparatus comprising: a signal generator (Figures 4 - 6); at least two transmit antennas (Figures 4 - 6); at least two RF

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transmitters (Figures 4-6), each of the RF transmitters operatively coupled to a respective one of the antennas, for converting the signal generated by the signal generator to an RF signal and outputting the RF signal through the respective antennas (Figure 6 and column 1, lines 13-33); and a time switching transmission controller for switching the transmission signal to one of the RF transmitters in order to performing time switched transmission diversity (TSTD) (Figure 6 and column 11, lines 13-33 and column 12, lines 58-67).

Smith does not specifically teach of wherein the switching cycle is integer multiple of the code length; for a code division multiple access CDMA communication system; and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code.

In a related art dealing with diversity, Zehavi teaches of for a code division multiple access CDMA communication system (column 4, lines 42 – 48) and again of a time switching transmission controller for switching the transmission signal to one of the RF transmitters in order to performing time switched transmission diversity (TSTD) (column 6, lines 32 – 40).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith's diversity system, Zehavi's diversity provisions, for the purposes of providing a time delayed version of the signal as a diversity scheme (note that Zehavi accomplishes this with a memory delay buffer, while Smith's structure achieves this using the switch, which cannot change instantaneously as stated in Smith, column 12, lines 58 – 67).

Smith in view of Zehavi do not specifically teach of wherein the switching cycle is integer multiple of the code length and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code.

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In a related art dealing with engineering systems, Rappaport teaches of wherein the switching cycle is integer multiple of the code length (pages 274 – 278; note that synchronization could not occur if the code was not an integer multiple of the code length, due to the nature of the PN codes used in such CDMA systems in relation to synchronization and demodulation as known in the art, for example, Gibson's "Communications Handbook," pages 200 – 202; note further that this correlates to the descriptions of the system's operation as provided in Applicant's specification, starting pages 15, line 15 and ending page 16, line 3, and again on page 18 where a complete code is used per user) and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code (page 276, section 5.10.2).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith and Zehavi's diversity scheme, Rappaport's finite in length and non-return zero codes, for the purposes of being able to decode and demodulate signals properly without interference from other users, as taught by Rappaport.

Regarding claim 2, Smith in view of Zehavi and Rappaport teach all the limitations as recited in claim 1. Smith further teaches of the time switching transmission controller comprising of a controller having pre-stored switching patterns (column 7, lines 31 – 44), for generating a switch controlling signal based on one of the pre-stored switching patterns (column 11, lines 28 – 33) said controlling signal being generated at the fixed non-overlapping predetermined time interval (column 12, lines 52 – 57; implies as systems using GSM and TDMA, both requiring non-overlapped time frames) a switch connected between an output terminal of the spreader and an input terminal each of the plurality of RF transmitters, for

switching the output of the spreader to a corresponding RF transmitter based on the switch controlling signal (as noted in claim 1, Smith in view of Zehavi).

Regarding claims 19 and 23, Smith teaches of a transmitting apparatus and method in a mobile communication bate system (Figures 4 – 6), comprising: a signal generator (Figures 4 – 6); two or more transmit antennas (Figures 4 – 6); two or more RF transmitters (Figures 4 – 6), each of the RF transmitters connected to a respective one of the antennas (Figures 4 – 6), for converting the signal generated by the signal generator to an RF signal and outputting the RF signal through the respective antenna (Figure 6 and column 1, lines 13 – 33); and a time switching transmission controller for alternately switching the transmission signal to one of the RF transmitters for a fixed, non-overlapping predetermined time unit to provide time switching transmission diversity (TSTD) (Figure 6 and column 11, lines 13 – 33 and column 12, lines 58 – 67).

Smith does not specifically teach of code division multiple access CDMA; for generating a transmission signal by modulating +1 or -1 signal with a code; wherein the switching cycle of the controller is an integer multiple of the code length.

In a related art dealing with diversity, Zehavi teaches of for a code division multiple access CDMA communication system (column 4, lines 42 - 48) and again of a time switching transmission controller for switching the transmission signal to one of the RF transmitters in order to performing time switched transmission diversity (TSTD) (column 6, lines 32 - 40).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith's diversity system, Zehavi's diversity provisions, for the purposes of providing a time delayed version of the signal as a diversity scheme (note that Zehavi

accomplishes this with a memory delay buffer, while Smith's structure achieves this using the switch, which cannot change instantaneously as stated in Smith, column 12, lines 58 – 67).

Smith in view of Zehavi do not specifically teach of wherein the switching cycle is integer multiple of the code length and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code.

In a related art dealing with engineering systems, Rappaport teaches of wherein the switching cycle is integer multiple of the code length (pages 274 – 278; note that synchronization could not occur if the code was not an integer multiple of the code length, due to the nature of the PN codes used in such CDMA systems in relation to synchronization and demodulation as known in the art, for example, Gibson's "Communications Handbook," pages 200 – 202; note further that this correlates to the descriptions of the system's operation as provided in Applicant's specification, starting pages 15, line 15 and ending page 16, line 3, and again on page 18 where a complete code is used per user) and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code (page 276, section 5.10.2).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith and Zehavi's diversity scheme, Rappaport's finite in length and non-return zero codes, for the purposes of being able to decode and demodulate signals properly without interference from other users, as taught by Rappaport.

Regarding claims 20 and 24, Smith in view of Zehavi and Rappaport teach all the limitations as recited in claims 19 and 23. Smith further teaches of the time switching transmission controller comprising of a controller having pre-stored switching patterns (column 7, lines 31 – 44), for generating a switch controlling signal based on one of the pre-stored

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switching patterns (column 11, lines 28 – 33) said controlling signal being generated at the fixed non-overlapping predetermined time interval (column 12, lines 52 – 57; implies as systems using GSM and TDMA, both requiring non-overlapped time frames) a switch connected between an output terminal of the spreader and an input terminal each of the plurality of RF transmitters, for switching the output of the spreader to a corresponding RF transmitter based on the switch controlling signal (as noted in claims 19 and 23, Smith in view of Zehavi).

6. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (Smith, US Patent No 6,006,075) in view Zehavi (Zehavi, US Patent No. 6,185,199) in further view of Rappaport (Rappaport, "Wireless Communications," Prentice Hall Publications) and in further view of Madhow et al. (Madhow, US Patent No. 6,175,587).

Regarding claim 9, Smith teaches of a transmitting apparatus comprising: a signal generator (Figures 4 – 6); first and second transmit antennas (Figures 4 – 6); at first and second RF transmitters (Figures 4 – 6), each of the RF transmitters operatively coupled to a respective one of the antennas, for converting the signal generated by the signal generator to an RF signal and outputting the RF signal through the respective antennas (Figure 6 and column 1, lines 13 – 33); and a time switching transmission controller for switching the transmission signal to one of the RF transmitters in order to performing time switched transmission diversity (TSTD) (Figure 6 and column 11, lines 13 – 33 and column 12, lines 58 – 67); a receiver for receiving the RF signal transmitted through the antennas (column 7, lines 23 – 30); and a controller for alternatively selecting [frequency] according to the switching cycle to support the TSTD reception (starting column 9, line 59 and ending column 10, line 7) and a demodulator for

detecting the modulation signal according to the selection of the controller (starting column 9, line 59 and ending column 10, line 7).

Smith does not specifically teach of wherein the switching cycle is integer multiple of the code length; for a code division multiple access CDMA communication system; and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code; the receiver at least comprising first pilot demodulator for estimating a phase of the first pilot signal transmitted through the first antenna and second pilot demodulator for estimating a phase of the second pilot signal transmitted from the second antenna; [a controller for alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception]; and [a demodulator for detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection of the controller (note the brackets are for clarity in grammar and that theses limitations have been addressed in the cited reference).

In a related art dealing with diversity, Zehavi teaches of for a code division multiple access CDMA communication system (column 4, lines 42 – 48) and again of a time switching transmission controller for switching the transmission signal to one of the RF transmitters in order to performing time switched transmission diversity (TSTD) (column 6, lines 32 – 40).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith's diversity system, Zehavi's diversity provisions, for the purposes of providing a time delayed version of the signal as a diversity scheme (note that Zehavi accomplishes this with a memory delay buffer, while Smith's structure achieves this using the switch, which cannot change instantaneously as stated in Smith, column 12, lines 58 – 67).

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Smith in view of Zehavi do not specifically teach of wherein the switching cycle is integer multiple of the code length and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code; the receiver at least comprising first pilot demodulator for estimating a phase of the first pilot signal transmitted through the first antenna and second pilot demodulator for estimating a phase of the second pilot signal transmitted from the second antenna; or [a controller for alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception]; and [a demodulator for detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection of the controller (note the brackets are for clarity in grammar and that theses limitations have been addressed in the cited reference).

In a related art dealing with engineering systems, Rappaport teaches of wherein the switching cycle is integer multiple of the code length (pages 274 – 278; note that synchronization could not occur if the code was not an integer multiple of the code length, due to the nature of the PN codes used in such CDMA systems in relation to synchronization and demodulation as known in the art, for example, Gibson's "Communications Handbook," pages 200 – 202; note further that this correlates to the descriptions of the system's operation as provided in Applicant's specification, starting pages 15, line 15 and ending page 16, line 3, and again on page 18 where a complete code is used per user) and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code (page 276, section 5.10.2).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith and Zehavi's diversity scheme, Rappaport's finite in length and non-return

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zero codes, for the purposes of being able to decode and demodulate signals properly without interference from other users, as taught by Rappaport.

Smith in view of Zehavi and Rappaport do not specifically teach of the receiver at least comprising first pilot demodulator for estimating a phase of the first pilot signal transmitted through the first antenna and second pilot demodulator for estimating a phase of the second pilot signal transmitted from the second antenna; or [a controller for alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception]; and [a demodulator for detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection of the controller (note the brackets are for clarity in grammar and that theses limitations have been addressed in the cited reference).

In a related art dealing interference suppression in CDMA systems, Madhow teaches of the receiver at least comprising first pilot demodulator for estimating a phase of the first pilot signal transmitted through the first antenna and second pilot demodulator for estimating a phase of the second pilot signal transmitted from the second antenna (starting column 4,line 66 and ending column 5,line 5 and column 5, lines 21 – 25); or [a controller for alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception] (starting column 4,line 66 and ending column 5,line 5 and column 5, lines 21 – 25); and [a demodulator for detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection of the controller] (starting column 4,line 66 and ending column 5, line 5 and column 5, lines 21 – 25).

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It would have been obvious to one skilled in the art at the time of invention to have included into Smith, Zehavi, and Rappaport's diversity system, Madhow's pilot and phase estimation processes, for the purposes of interference suppression between the various signals, as taught by Madhow.

7. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (Smith, US Patent No 6,006,075) in view of Rappaport (Rappaport, "Wireless Communications," Prentice Hall Publications).

Regarding claim 13, Smith teaches of a channel signal transmitting method in a mobile communication system, comprising the steps of: generating a modulation signal (Figures 4 – 6 and column 6, lines 47 – 58); switching the modulation signal to a first RF transmitter connected to a first antenna or a second RF transmitter connected to a second antenna with non-overlapping time intervals (starting column 9, line 59 and ending column 10, line 7 and column 12, lines 52 – 68); and converting the modulation signal to a radio frequency(RF) signal to transmitting the RF signal through one of the antennas (Figures 4 – 6 and column 6, lines 47 – 64)

Smith does not specifically teach of code division multiple access (CDMA); generating a modulation signal by modulating +1 or -1 signal with a code; wherein a cycle of the switching is multiple integer of the code length.

In a related art dealing with engineering systems, Rappaport teaches of code division multiple access (CDMA) (pages 336 – 338); wherein the switching cycle is integer multiple of the code length (pages 274 – 278; note that synchronization could not occur if the code was not an integer multiple of the code length, due to the nature of the PN codes used in such CDMA systems in relation to synchronization and demodulation as known in the art, for example,

Gibson's "Communications Handbook," pages 200 – 202; note further that this correlates to the descriptions of the system's operation as provided in Applicant's specification, starting pages 15, line 15 and ending page 16, line 3, and again on page 18 where a complete code is used per user) and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code (page 276, section 5.10.2).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith's diversity system, Rappaport's finite in length and non-return zero codes, for the purposes of being able to accommodate for CDMA systems and further decode and demodulate signals such signals properly without interference from other users, as taught by Rappaport.

8. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over Smith et al (Smith, US Patent No 6,006,075) in view of Rappaport (Rappaport, "Wireless Communications," Prentice Hall Publications) in further view of Madhow et al. (Madhow, US Patent No. 6,175,587).

Regarding claim 17, Smith teaches of a channel signal transmitting method in a mobile communication system, comprising the steps of: generating a modulation signal (Figures 4 – 6 and column 6, lines 47 – 58); switching the modulation signal to a first RF transmitter connected to a first antenna or a second RF transmitter connected to a second antenna with non-overlapping time intervals (starting column 9, line 59 and ending column 10, line 7 and column 12, lines 52 – 68); and converting the modulation signal to a radio frequency(RF) signal to transmitting the RF signal through one of the antennas (Figures 4 – 6 and column 6, lines 47 – 64) receiving the RF signal transmitted through the antennas (column 7, lines 23 – 30); alternatively selecting the

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[frequency] according to the switching cycle to support the TSTD reception (starting column 9, line 59 and ending column 10, line 7) and [detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection] (starting column 9, line 59 and ending column 10, line 7).

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Smith does not specifically teach of code division multiple access (CDMA); generating a modulation signal by modulating +1 or -1 signal with a code; wherein a cycle of the switching is multiple integer of the code length; or estimating a phase of the first pilot signal transmitted through the first antenna and a phase of the second pilot signal transmitted from the second antenna; [alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception]; and [detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection] (note the brackets are for clarity in grammar and that theses limitations have been addressed in the cited reference).

In a related art dealing with engineering systems, Rappaport teaches of code division multiple access (CDMA) (pages 336 – 338); wherein the switching cycle is integer multiple of the code length (pages 274 – 278; note that synchronization could not occur if the code was not an integer multiple of the code length, due to the nature of the PN codes used in such CDMA systems in relation to synchronization and demodulation as known in the art, for example, Gibson's "Communications Handbook," pages 200 – 202; note further that this correlates to the descriptions of the system's operation as provided in Applicant's specification, starting pages 15, line 15 and ending page 16, line 3, and again on page 18 where a complete code is used per user)

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and for generating a modulation signal by multiplying +1 or -1 signal with a code spreader for spreading a code (page 276, section 5.10.2).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith's diversity system, Rappaport's finite in length and non-return zero codes, for the purposes of being able to accommodate for CDMA systems and further decode and demodulate signals such signals properly without interference from other users, as taught by Rappaport.

Smith in view of Rappaport do not specifically teach of estimating a phase of the first pilot signal transmitted through the first antenna and a phase of the second pilot signal transmitted from the second antenna; [alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception]; and [detecting the modulation signal] with the first estimated phase or the second estimated phase [according to the selection] (note the brackets are for clarity in grammar and that theses limitations have been addressed in the cited reference).

In a related art dealing interference suppression in CDMA systems, Madhow teaches of estimating a phase of the first pilot signal transmitted through the first antenna and a phase of the second pilot signal transmitted from the second antenna (starting column 4, line 66 and ending column 5, line 5 and column 5, lines 21 – 25); [alternatively selecting] the first estimated phase or the second estimated phase [according to the switching cycle to support the TSTD reception] (starting column 4, line 66 and ending column 5, line 5 and column 5, lines 21 – 25); and [detecting the modulation signal] with the first estimated phase or the second estimated phase

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[according to the selection] (starting column 4, line 66 and ending column 5, line 5 and column 5, lines 21 - 25).

It would have been obvious to one skilled in the art at the time of invention to have included into Smith, Zehavi, and Rappaport's diversity system, Madhow's pilot and phase estimation processes, for the purposes of interference suppression between the various signals, as taught by Madhow.

Citation of Pertinent Prior Art

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Inventor	Publication	Number	Disclosure
Yang	Artech House	Pages 46 – 51	Walsh code generation and channelization
Gibson	CRC Press	Pages 94 -106	Pseudonoise sequences

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanmay S Lele whose telephone number is (703) 305-3462. The examiner can normally be reached on 9 - 6:30 PM Monday – Thursdays and on alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay A. Maung can be reached on (703) 308-7745. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.

Tanmay S Lele Examiner Art Unit 2684

tsl September 4, 2003 NAY MAUNG PRIMARY EXAMINER